

DETAILED ACTION

1. This action is responsive to amendment filed 7/29/2010.

Response to Remarks/Amendment

2. Applicant's remarks/amendment, pages 9, filed 7/29/2010, with respect to claims 9-12, 15-16, 18-19 and 21-26 have been considered and as a result the claims 9-12, 15-16, 18-19 and 21-26 are now indicated allowable. However, in order to advance prosecution in the case, an examiner's amendment was considered necessary so as to overcome minor deficiency in one of the claim. The Examiner's amendment follows.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John J. Patti on 10/5/2010.

The application has been amended as follows:

IN THE CLAIMS:

Claim 10, line 2, "further comprising an estimator" has been replaced with
-- further comprising the estimator --.

Allowable Subject Matter

4. Claims 9-12, 15-16, 18-19 and 21-26 allowed.

Reason for Allowance

5. The following is an examiner's statement of reasons for allowance:

The prior art either alone or in combination neither teaches nor renders obvious a compensation system programmed to mitigate errors associated with a conversion system, the compensation system comprising, in combination with other claimed limitations, a calibration system that provides a calibration signal that is substantially free of in-band frequencies to the conversion system, and wherein the calibration system includes an estimator having: a first delay element that receives the quantized signal; a bit splitter that receives an output from the delay first element; a matrix multiplier that receives an output from the bit splitter; a gain element that receives an output from the matrix multiplier; an adder that receives an output from the gain element; and a second delay element that receives an output from the adder and that provides its output to the adder.

Such limitations as recited in independent claims 9, 15, 16, 18 and 21, is neither anticipated nor rendered obvious by the prior art of record.

6. Claims 10-12, 19, 22-26 are allowed by virtue of their dependency to claims noted above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to QUTBUDDIN GHULAMALI whose telephone number is (571)272-3014. The examiner can normally be reached on Monday-Friday, 7:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh M. Fan can be reached on (571) 272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

QG.
October 5, 2010.

/CHIEH M FAN/

Supervisory Patent Examiner, Art Unit 2611